

# New York State Department of Transportation

## Yellow Flag NB22CTW013

By: Rehan Afridi

Flag Date: April 11, 2022

Superseding Information:

This flag supersedes: YF NB2158W001

### Structure Information

*BIN:* 1065318

*Feature Carried:* 278I278IX2M23027

*Feature Crossed:* 6TH AVENUE

*Orientation:* 8 - NORTHWEST

*Region:* 11 - NEW YORK CITY

*County:* KINGS

*Political Unit:* City of NEW YORK

*Approximate Year Built:* 1962

*Posted Load Matches Inventory :* Yes

*Bridge Load Posting (Tons) :* Not Posted for Load

*Primary Owner:* New York State Department of Transportation

*Primary Maintenance Responsibility:* 12 - State - Subcontracted to another Party

*Typical or Main Span Type:* 3 - Steel, 02 - Stringer/Multi-Beam or Girder

This Bridge is not a Ramp

*Number of Spans:* 322

### Verbal Notification Information

*Person Notified:* Heinz Joachim, P.E.

*Date:* April 11, 2022 10:00:00 AM

*Of:* NYSDOT Region 11

### Signature Information

*Signature:* Rehan Afridi, P.E. 075185

*Date:* April 20, 2022

*Reviewed By:* Robert Kemp

*Date:* April 20, 2022

*Attachments:* 6

### Flagged Elements

Parent Element	Element	Total Quantity	Unit
<b>Span Number : 160</b>			
	107 - Steel Open Girder/Beam	729	ft
	PR831 - Steel Beam End	33	each

### Flagged Condition Description

This Yellow Flag No. NB22CTW013 supersedes previously issued Yellow Flag No. NB2158W001.

Location: Span 160, G12 at Pier 159

Description: The left connection angle for Girder G12 in Span 160 to Pier 159 exhibits a 3" long (no change from previous) crack at the bottom of the connection angle in the fillet area (Photo Nos. 2, 3 and 4). The end of Girder G12 itself exhibits moderate to heavy localized pitting in the lower web above the bottom flange with up to 25% section loss (no change from previous).

A dye penetrant test was performed to determine the extent of the crack, which does not propagate into the base steel of the girder or pier web.

Notes:

1. The adjacent Girder G11 is in fair condition and exhibits moderate to heavy localized pitting at the end of the girder, in the lower web above the bottom flange, with up to 15% section loss.
2. The adjacent Girder G13 is in good condition. The end of the girder has been previously repaired with structural steel plates and angles installed at the web and bottom flange.
3. A double lane closure in the eastbound direction with a 30ft bucket truck was used to access this location.

**Flag Photographs**

Photo Number: 1

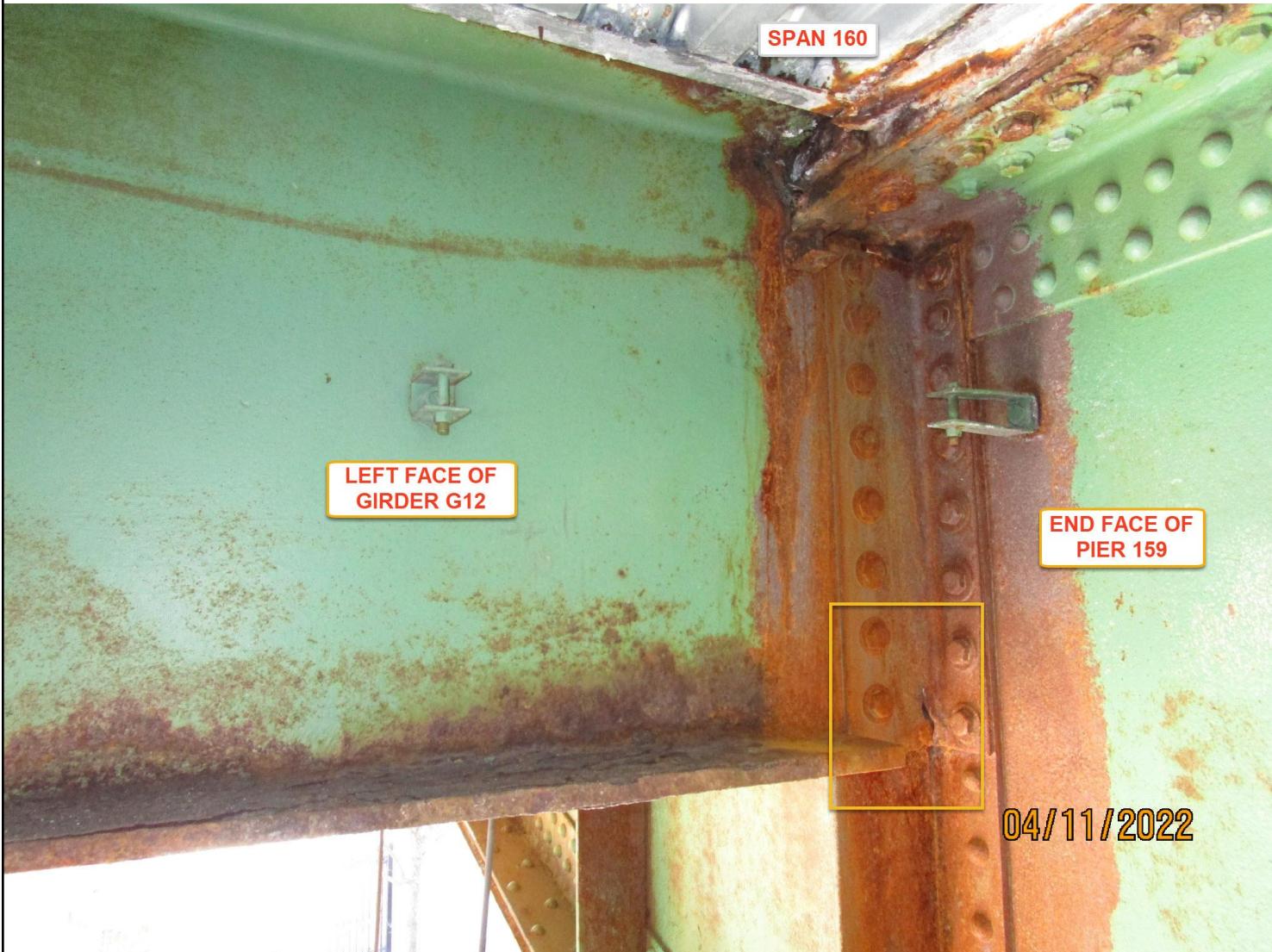
Photo Filename: Photo 1-RA 613\_0520.jpg



**Attachment Description:** Span 160 G12 at Pier 159, Looking Begin. General view of the flagged location that exhibits 3" long crack in the bottom of the connection angle of the girder to the pier web.

Photo Number: 2

Photo Filename: Photo 2-RA 613\_0521.jpg



**Attachment Description:** Span 160 G12 at Pier 159, Looking Begin-Right. General view of the flagged location that exhibits 3" long crack in the bottom of the connection angle of the girder to the pier web.

Photo Number: 3

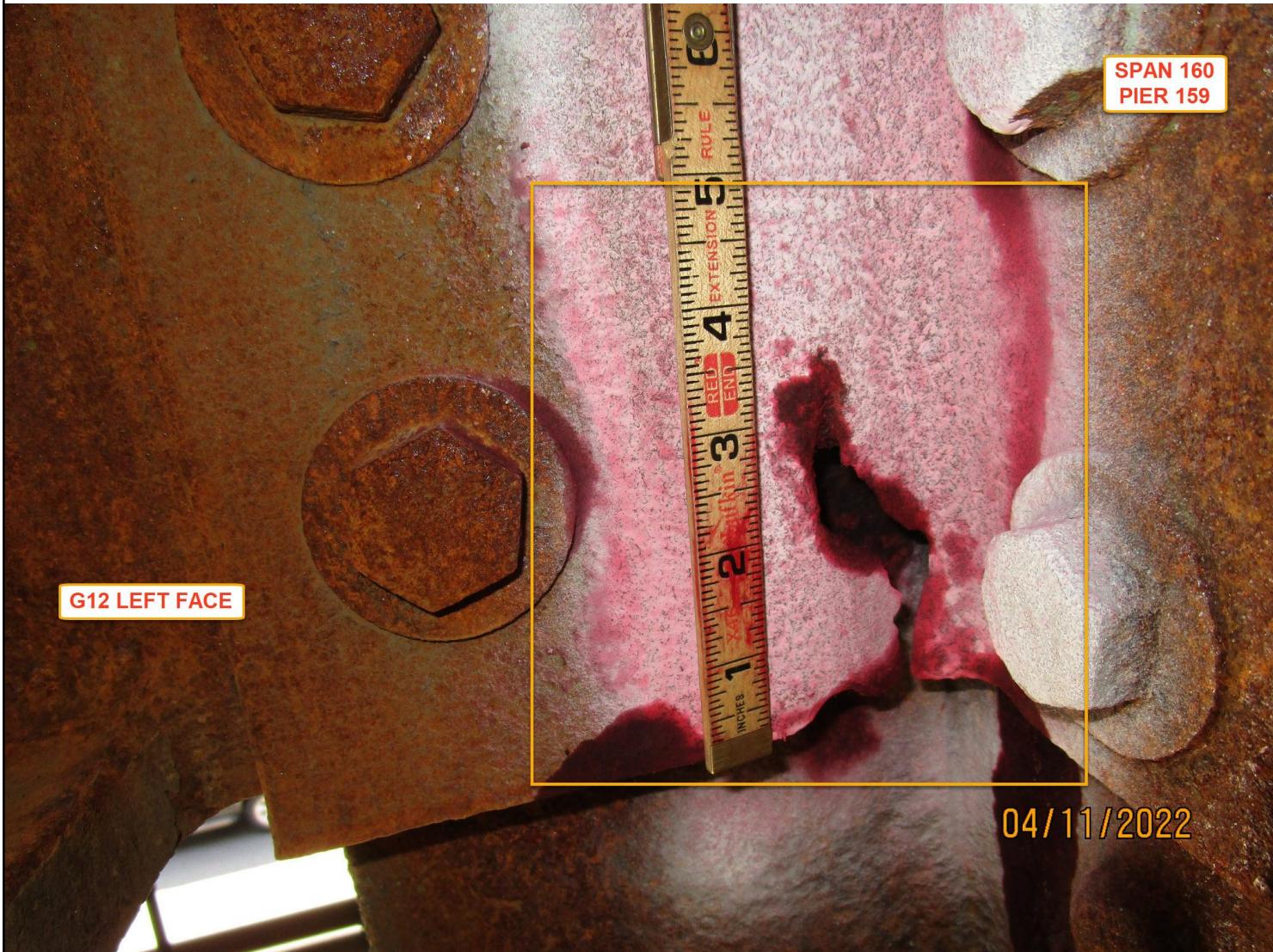
Photo Filename: Photo 3-RA 613\_0527.jpg



**Attachment Description:** Span 160 G12 at Pier 159, Looking Right. Close up view of the 3" long crack at the bottom of the connection angle of the girder to the pier web.

Photo Number: 4

Photo Filename: Photo 4-RA 613\_0545.jpg



**Attachment Description:** Span 160 G12 at Pier 159, Looking Right. Close up view of the 3" long crack at the bottom of the connection angle of the girder to the pier web, after dye penetrant test.

Photo Number: 5

Photo Filename: SN 160 G12 at Pier 159 Sketch.jpg

YELLOW FLAG No. NB22CTW013

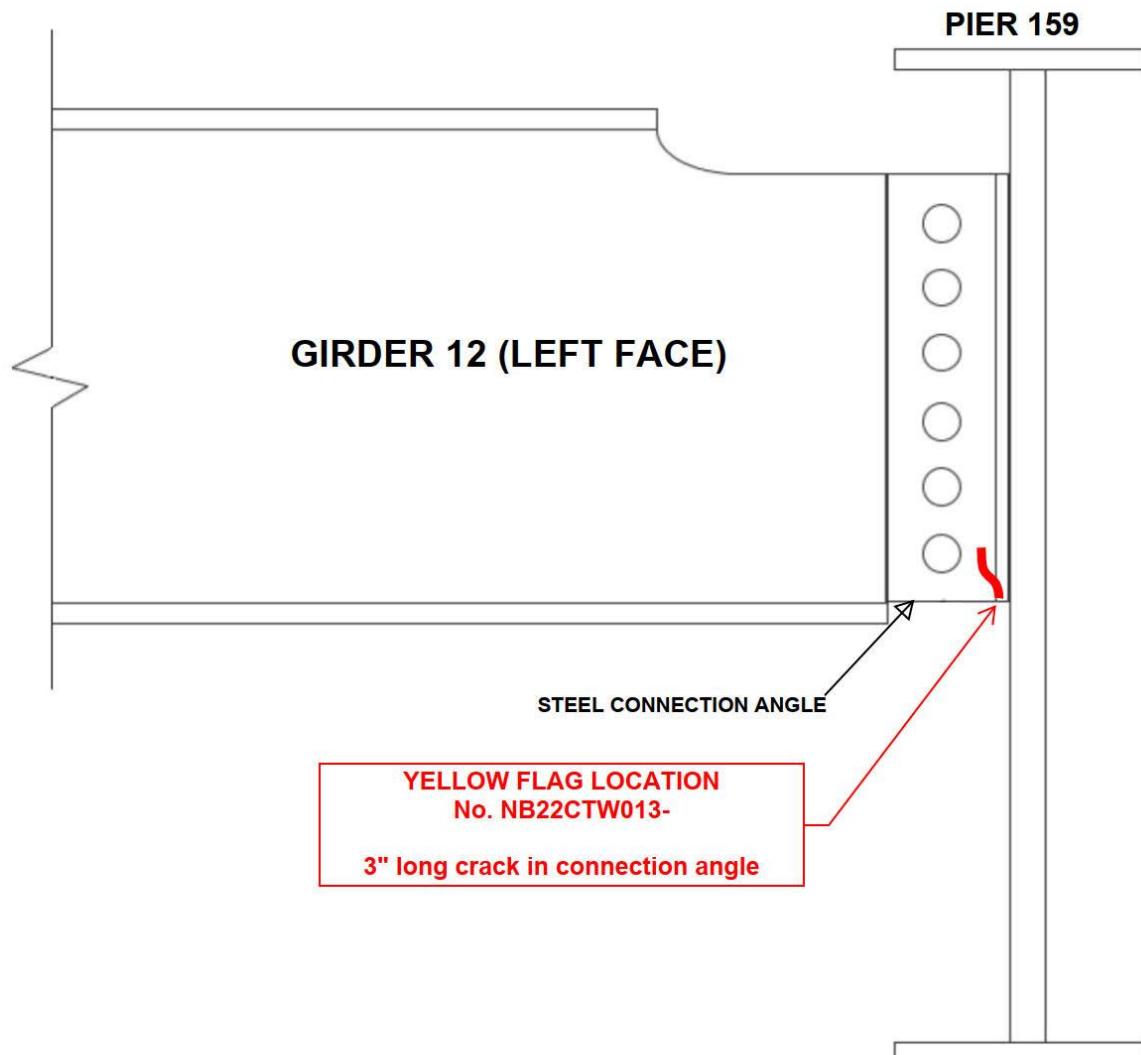
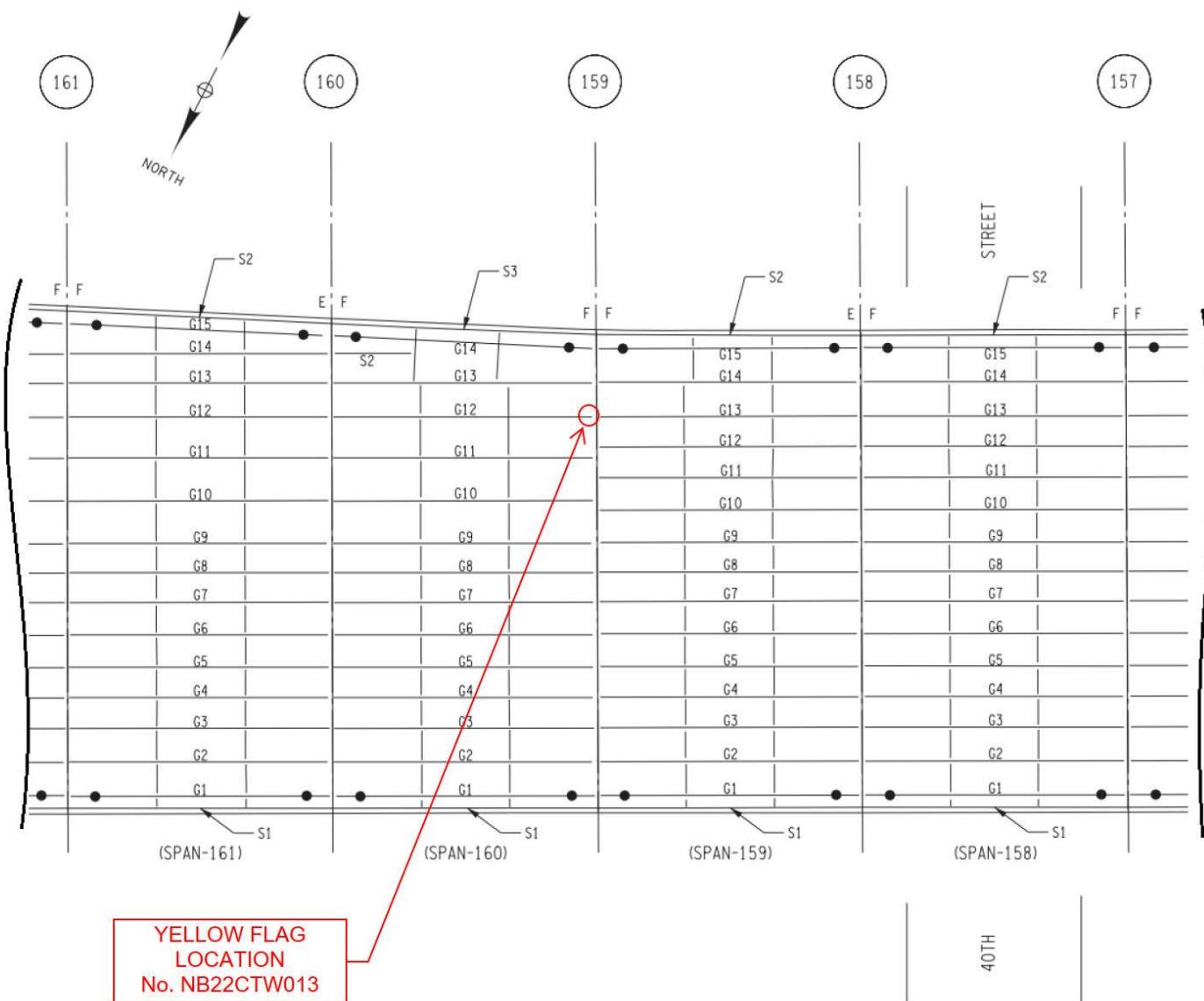
BIN 1065318  
DATE: 04/11/2022*Attachment Description: SN 160 G12 at Pier 159 Sketch*

Photo Number: 6

Photo Filename: SN 160 G12 at Pier 159 Framing Plan.jpg



Attachment Description: SN 160 G12 at Pier 159 Framing Plan